Vector Product Format (VPF) Statistical (VPFStat) Software

Description and Background

VPFStat software provides feature and attribute information for data sets in Vector Product Format (VPF). (For information on VPF, see the VPF fact sheet). Due to differences in compilation source and intended use, VPF products maintain different levels of feature density and attribute completeness. For example, Digital Topographic data (DTOP) is a VPF product derived from imagery that contains the highly detailed feature and attribute information necessary for complex terrain analysis applications. Vector Map (VMAP) products, on the other hand, are produced from cartographic sources and contain feature and attribute content that is much less complete. These products are primarily used for map background and planning purposes. VPFStat is a useful tool for assessing the usability of a particular VPF product for a given application.

Key Capabilities

VPFStat has a Graphical User Interface (GUI) through which the user may find and select a desired VPF data set for analysis. The user may tailor a statistical query to provide information on any level of the VPF hierarchy (library, thematic coverage, feature class, feature, or attribute). Ancillary information found in metadata tables also may be queried. Query results provide a comprehensive breakout of the names, codes and values of all features and attributes in the hierarchy level specified by the user. Total counts of each feature, attribute and attribute value are provided along with a count and a percentage of attribute values that are 'meaningful' (non-null) so that the user can assess the relative completeness of the data set. VPFStat results are presented in a readable, tabular format to the screen and may be saved in either ASCII text or Rich Text format.

The VPFStat program consists of a single executable that runs within the Sun Solaris or Windows 95/NT operating environments. A basic knowledge of the VPF data structure is required.

Developmental Efforts

VPFStat will be included as an independent module within the VPF Exploitation Software (VPFES) suite of applications. VPFES is a library of software utilities aimed at helping the Army community exploit VPF-based Digital Topographic Data (DTD). (For more information on VPFES, see the VPFES fact sheet.)

Current Status

The VPFStat is complete and currently is being added to VPFES. Refer to the VPFES fact sheet for the current status of VPFES.

Point of Contact

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